

Product datasheet for **RG209555**

FGR (NM_001042729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGR (NM_001042729) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGR
Synonyms:	c-fgr; c-src2; p55-Fgr; p55c-fgr; p58-Fgr; p58c-fgr; SRC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209555 representing NM_001042729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGTGTCTGCAAGAAATTTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGCCTGGAAGGGG
 ACTTCAGAAGCTACGGGGCAGCAGACCACTATGGGCTGACCCCACTAAGGCCCGCCTGCATCCTCATT
 TGCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGGCTTCTTATAGTGGCACC
 ATCAGGGGTGTGTGAGGATTGGGGTGACCCTGTTTATTGCCCTGTATGACTATGAGGCTCGAACTGAGG
 ATGACCTCACCTTACCAAGGGCGAGAAGTTCCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGC
 TCGGTCTCTCAGCTCCGAAAACTGGCTGCATTCCCAGCAACTACGTGGCCCTGTTGACTCAATCCAA
 GCTGAAGAGTGGTACTTTGAAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTTCACCAGGCAACC
 CCCAGGGGGCCTTCTCATTTCGGGAAAGCGAGACCACCAAGGTGCCTACTCCCTGTCCATCCGGGACTG
 GGATCAGACCAGAGGCGATCATGTGAAGCATTACAAGATCCGCAAACTGGACATGGGCGGCTACTACATC
 ACCACACGGGTTCACTCAACTCGGTGCAGGAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGT
 GCAACCTGCTCATCGCGCCCTGCACCATCATGAAGCCGACAGCGCTGGGCTGGCCAAGGACGCCTGGGA
 GATCAGCCGACGCTCCATCACGCTGGAGCGCCGGCTGGGCACCGGCTGCTTCGGGGATGTGTGGCTGGC
 ACGTGGAAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCCGGGCACCATGTCCCCGAAGGCCTTCC
 TGGAGGAGGCGCAGGTATGAAGCTGCTGCGGCACGACAAGCTGGTGCAGCTGTACGCCGTGGTGTGCGGA
 GGAGCCCATCTACATCGTGACCGAGTTCATGTGTACGGCAGCTTGTGGATTTTCTCAAGAACCAGAG
 GGCCAGGATTTGAGGCTGCCCAATTGGTGGACATGGCAGCCAGGTAGCTGAGGGCATGGCCTACATGG
 AACCGTAACACTACATTCACCGCAGCTGAGGGCAGCCAACATCCTGGTTGGGAGCGGCTGGCTGCAA
 GATCGCAGACTTTGGCTTGGCGCGTCTCATCAAGGACGATGAGTACAACCCTGCCAAGGTTCCAAGTTC
 CCCATCAAGTGGACAGCCCCAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAAGTCAAGTGTGCTCCT
 TTGGGATCCTGCTCACTGAGCTCATACCAAGGGCCGAATCCCCTACCCAGGCATGAATAAACGGGAAGT
 GTTGGAACAGGTGGAGCAGGGCTACCACATGCCGTGCCCTCCAGGCTGCCAGCATCCCTGTACGAGGCC
 ATGGAACAGACCTGGCGTCTGGACCCGGAGGAGGCCTACCTTCGAGTACCTGCAGTCTTCTGGAGG
 ACTACTCACCTCCGCTGAACCACAGTACCAGCCCGGGGATCAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209555 representing NM_001042729
 Red=Cloning site Green=Tags(s)

MGCVFCKLEPVATAKEDAGLEGDFRSYGAADHYGPDPTKARPASSFAHIPNYSNFSQAINPGFLDSGT
 IRGVSGIGVTLFIALYDYEARTEDDLTFKGEKFHILNTEGDWWEARLSGKTCIPSNYVAPVDSIQ
 AEEWYFGKIGRKDAERQLLSPGNPQGAFLIRESETTKGAYSLSIRDWDQTRGDHVKHYKIRKLDMGYYI
 TTRVQFNSVQELVQHMEVNDGLCNLLIAPCTIMKPQTLGLAKDAWEISRSSITLERRLGTGCFGDVWLG
 TWNGSTKVAVKTLKPGTMSPKAFLEEAQVMKLLRHDKLVLQYAVVSEEPYIVTEFMCHGSLDLFLKNPE
 GQDLRLPQLVDMAAQVAEGMAYMERMNYIHRDLRAANILVGERLACKIADFGLARLIKDDEYNPCQGSKF
 PIKWTAPEAALFGRFTIKSDVVSFGILLTELITKGRIPYPMNKREVLEQVEQGYHMPGPPGCPASLYEA
 MEQWRLDPEERPTFEYLQSFLEDYFTSAEPQYQPGDQT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001042729
ORF Size:	1587 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001042729.2
RefSeq Size:	2442 bp
RefSeq ORF:	1590 bp
Locus ID:	2268
UniProt ID:	P09769
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway
Gene Summary:	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to plasma membrane ruffles, and functions as a negative regulator of cell migration and adhesion triggered by the beta-2 integrin signal transduction pathway. Infection with Epstein-Barr virus results in the overexpression of this gene. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]